



Pillsbury
Winthrop
Shaw
Pittman_{LLP}



10/003330

CofC

725 SOUTH FIGUEROA STREET SUITE 2800 LOS ANGELES, CA 90017-5406 213.488.7100 F: 213.629.1033

February 20, 2007

Roger R. Wise
Phone: 213.488.7584
roger.wise@pillsburylaw.com

Privileged & Confidential

Via First-Class Mail

Certificate of Correction Branch
Commissioner for Patents
U.S. PATENT & TRADEMARK OFFICE
P.O. Box 1450
Alexandria, VA 22313-1450

Certificate
FEB 28 2007
of Correction

Re: **U.S. PATENT NO. 7,154,979**
U.S. Application Serial No. 10/003,330
CERTIFICATE OF CORRECTION
Our Ref. No.: 081674-0249738

Dear Sir:

On November 7, 2006, the issue fee transmittal for the above-referenced matter was submitted together with "Notification of Incorrect Filing Date on Notice of Allowance and Request for Corrected Filing Date" to correct the filing date of the application. However, the Office failed to address this request until the issuance of the letters patent which incorrectly indicates the filing date of the application as March 11, 2002 on the title page.

On March 28, 2002, the Office issued the Filing Receipt and the Notice to File Missing Parts of NonProvisional Application which required the signature of inventor Takatori. Both the filing receipt and the notice correctly indicate the filing date of the application which is October 31, 2001. The response to the Notice of Missing Parts was subsequently filed on February 27, 2002. Thereafter, an updated filing receipt was issued. This time however, the filing date of the application on the updated filing receipt was changed to March 11, 2002. There was no basis to change the filing date.

In view of the foregoing, it is hereby requested that the enclosed Certificate of Correction for the above-referenced patent be processed to change the filing date of the application from March 11, 2002 to October 31, 2001.

FEB 28 2007

Certificate of Correction Branch
Commissioner for Patents
February 20, 2007
Page 2

Copies of the following documents are being furnished for your reference in support of the request to change the application filing date:

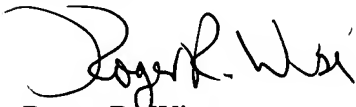
- Copy of the Express Mail label and the return postcard
- Copy of the Certificate of Express Mail
- Copy of the application transmittal
- Copy of the Filing Receipt issued on January 2, 2002
- Copy of the Updated Filing Receipt issued on March 28, 2002
- Copy of the Declaration

It is believed that no fee is required for this request due to the fact that the Office failed to address the Request for Corrected Filing Receipt before the issuance of the patent. However, if a fee becomes necessary, the Commissioner is hereby authorized to charge the fee for the Certificate of Correction in the amount of \$100.00 to our Deposit Account No. 033975. The Commissioner is further authorized to charge any deficiency in payment or credit any overpayment to the aforementioned account number. A copy of this letter is enclosed.

Should you have any questions, please do not hesitate to call the undersigned at 213-488-7584. Thank you.

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP



Roger R. Wise
Registration No. 31,204

RRW:msg
Enclosures

FEB 28 2007

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO. : 7154979

APPLICATION NO.: 10/003,330

ISSUE DATE : December 26, 2006

INVENTOR(S) : HIROSHI TAKATORI, JAMES M. LITTLE and SCOTT CHIU

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On title page, item 22, Filed
replace "March 11, 2002"
with --October 31, 2001--.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Pillsbury Winthrop Shaw Pittman LLP
725 S. Figueroa Street Suite 2800
Los Angeles, CA 90017-5406

0

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

FEB 28 2007



S.N. NOT ASSIGNED File No. 024 9738 Date Mailed 10/31/01 By: RRWLS
Title: TIMING RECOVERY WITH VARIABLE BANDWIDTH
(Client Name) INTEL

The Following, due _____ in the U.S. Patent & Trademark Office was received in the Patent & Trademark Office on the date stamped hereon:

- ☐ Amendment
- ☐ Preliminary Amendment
- ☐ PCT Application Including
- ☐ Pages Spec. _____ Page Abstract. _____ Claims
- ☒ Application for Patent Including
- ☒ 21 Pages Spec. ☒ Page Abstract. 32 Claims
- ☒ Declaration, Affidavit of Oath (3 Page(s))
- ☒ Assign; Ck. No. 801619 for \$ 40.-
- ☐ Verified Statement
- ☒ Letter of Transmittal
- ☐ Maintenance Fee Transmittal
- ☒ Check No. 801618 For \$ 1040.-
- ☐ Check No. _____ For \$ _____
- ☐ Check No. _____ For \$ _____
- ☒ CERTIFICATE OF EXPRESS MAIL

- Drawings; # of Sheets 5
☐ Formal ☒ Informal
☐ Issue Fee Transmittal
☐ Letter Re _____
☐ Notice of Appeal
☐ Petition for _____
☐ Advance soft copy order
☐ Ck. No. _____ for \$ _____
☐ Certified Copy; # _____ of Docs.
☐ IDS; _____ References
☒ ASSIGNMENT COVER

38971 U.S. PTO
10/003330
10/31/01

EL 860 912 752 US



POST OFFICE
TO ADDRESSEE



EL 860 912 752 US

ORIGINATOR USE ONLY	
PO/ZIP (use)	Day of Delivery: <input checked="" type="checkbox"/> Next <input type="checkbox"/> Second
Date: <u>10-31-01</u>	Flat Rate Envelope: <input type="checkbox"/>
Time in: <u>1511</u>	Postage: \$ <u>16.05</u>
Weight: <u>8.5</u> lbs.	Return Receipt Fee: _____
No Delivery: <input type="checkbox"/> Weekend <input type="checkbox"/> Holiday	Int'l Alpha Country Code: _____
Acceptance Origin Initials: <u>RRW</u>	COD Fee: _____ Insurance Fee: _____
Total Postage & Fees: \$ <u>16.00</u>	

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FROM: (PLEASE PRINT) 213 488 7163
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725 S FIGUEROA ST STE 2800
LOS ANGELES CA 90017-5443
31674.024 9738 RRW/jg

Federal Agency Acct. No. or
Postal Service Acct. No. _____

TO: (PLEASE PRINT) _____
Assistant Commissioner of Patents
Box Patent Application
Washington, D.C. 20231

Customer Copy
Label 11-F August 2000

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FEB 28 2007



PATENT
024 9738

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application
TAKATORI, et al.

Serial No.: Not Assigned

Filed: October 31, 2001

For: TIMING RECOVERY WITH VARIABLE
BANDWIDTH PHASE LOCKED LOOP AND NON-LINEAR
CONTROL PATHS

Group No.: Not Assigned

Examiner: Not Assigned

CERTIFICATE OF MAILING VIA U.S. EXPRESS MAIL

"Express Mail" Mailing Label No. EL 860 912 752 US

Date of Deposit: October 31, 2001

Box Patent Application
Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

I hereby certify that

- ☒ Letter of transmittal
- ☒ Patent application (21 pages of specification; 32 claims; 1 pages of abstract)
- ☒ A check in the amount of \$1040.00 to cover the filing fee
- ☒ A Declaration/Power of Attorney
- ☒ 5 sheets of informal drawings
- ☒ Return postcard
- ☒ An Assignment of the invention with cover sheet and \$40.00 recordation fee

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service with sufficient postage under 37 CFR 1.10 on the date indicated above and are addressed to:

Box Patent Application
Assistant Commissioner for Patents
Washington, D.C. 20231.

October 31, 2001

Date of Deposit

Ernie Sandoval

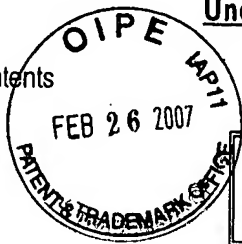
FEB 28 2007

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
REQUEST FOR FILING NATIONAL PATENT APPLICATION

Under 35 USC 111(a) and Rule 53(b)

PATENT APPLICATION

Hon. Commissioner of Patents
Washington, D.C. 20231



WITH SIGNED DECLARATION

NONPROVISIONAL
NON REISSUE
NON PCT NAT PHASE

Sir:

Herewith is the PATENT APPLICATION of
Inventor(s): James Little, Hiroshi Takatori and Scott Chiu

Title TIMING RECOVERY WITH VARIABLE BANDWIDTH PHASE
LOCKED LOOP AND NON-LINEAR CONTROL PATHS

Atty. Dkt.: PW 024 9738 | P12830

M#

Client Ref

including:

Date: October 31, 2001

1. Specification: 21 pages (only spec. and claims) 2. ☐ Specification in non-English language
3. Declaration ☒ Original ☐ Facsimile/Copy ☒ Abstract 1 page(s); 32 numbered claims
4. ☒ Drawings: 5 sheet(s) ☒ Informal; ☐ formal of size: ☐ A4 ☒ 11"
5. ☐ See top first page re prior Provisional, National or International application(s). ("X" box only if info is there and do not complete corresponding item 5 or 6). (Prior M# _____ SN _____)
6. **AMEND the specification** please by inserting before the first line: -- This is a ☐ Continuation-in-Part
☐ Divisional ☐ Continuation ☐ Substitute Application (MPEP 201.09) of:
- 6(a) ☐ National Appl. No. / filed (M#)
- 6(b) ☐ International Appl. No. _____ filed _____
which designated the U.S., and that International Application ☐ was ☐ was not published under PCT Article 21(2) in English.--
7. ☐ **AMEND the specification** by inserting before the first line: -- This application claims the benefit of U.S. Provisional Application No. 60/ _____, filed _____
8. ☒ Attached is an assignment and cover sheet. Please return the recorded assignment to the undersigned.
9. ☐ Prior application is assigned to _____

by Assignment recorded _____ Reel _____ Frame _____

10. **FOREIGN** priority is claimed under 35 USC 119(a)-(d)/365(b) based on filing in _____

11. _____ (country)

Application No.	Filing Date	Application No.	Filing Date
(1)		(2)	
(3)		(4)	
(5)		(6)	
(7)		(8)	
(9)		<input type="checkbox"/> See 3 rd page for additional priorities	

12. _____ (No.) Certified copy (copies): ☐ attached; ☐ previously filed (date) _____
in U.S. Application No. / filed on _____
13. Small entity status → ☒ is **not** claimed; ☐ is claimed (**Pre-filing confirmation required**)
- 13(a) ☐ Attached: _____ (No.) Small Entity Statement(s) (since 9/8/00 small entity statement(s) not essential to make claim)
- 13(b) ☐ See **NONPUBLICATION REQUEST** under Rule 213(a) attached (PAT-258)

FEB 28 2007

14. **DOMESTIC/INTERNATIONAL** priority is claimed under 35 USC 119(e)/120/365(c) based on the following provisional, nonprovisional and/or PCT international application(s):

Application No.	Filing Date	Application No.	Filing Date
(1)		(4)	
(2)		(5)	
(3)		(6)	

15. ☐ This application is being filed under Rule 53(b)(2) since an inventor is named in the enclosed Declaration who was not named in the prior application.

16. ☐ Attached:

17. ☐ Preliminary Amendment:

THE FOLLOWING FILING FEE IS BASED ON CLAIMS AS FILED LESS ANY ABOVE CANCELLED

				Large/Small Entity		Fee Code
18. Basic Filing Fee				\$740/\$370	\$740	101/201
19. Total Effective Claims	32	minus 20 =	*12	x \$18/\$9 =	+ 216	103/203
20. Independent Claims	4	minus 3 =	*1	x \$84/\$42 =	+ 84	102/202
*If answer is zero or less, enter "0"						
21. If any proper multiple dependent claim (ignore improper) is present, add (Leave this line blank if this is a reissue application)				+ \$280/\$140	+ 0	104/204
22. TOTAL FILING FEE ENCLOSED =					\$1040	
23. If "non-English" box 2 is X'd, add Rule 17(k) processing fee				+ \$130	+ 0	139
24. If "assignment" box 8 is X'd, add recording fee				+ \$40	+ 40	581
25. <input type="checkbox"/> Attached is a Petition/Fee under Rule No.				+ \$130	+ 0	122
26. TOTAL FEE ENCLOSED =					\$1080	

Our Deposit Account No. 03-3975

Our Order No. 081674 0249738

C#

M#

CHARGE STATEMENT: The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any missing or insufficient fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (missing or insufficient fee only) now or hereafter relative to this application and the resulting Official document under Rule 20, or credit any overpayment, to our Account/Order Nos. shown above for which purpose a duplicate copy of this sheet is attached.

This **CHARGE STATEMENT** does not authorize charge of the issue fee until/unless an issue fee transmittal form is filed.

Pillsbury Winthrop LLP
Intellectual Property Group

725 South Figueroa Street, Suite 2800
Los Angeles, CA 90017-5406
Tel: (213) 488-7100

By Atty: Roger R. Wise

Reg. No. 31204

Sig: Roger R. Wise

Fax: (213) 629-1033
Tel: (213) 488-7584

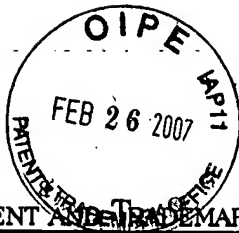
RRW/jes

NOTE: File in duplicate with 2 post card receipts (PAT-103) & attachments

FEB 28 2007



UNITED STATES PATENT AND TRADEMARK OFFICE



COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/003,330	10/31/2001	2631	1040	PW 024 9738 P12830	5	32	4

CONFIRMATION NO. 5276

FILING RECEIPT



OC000000007250499

Pillsbury Winthrop LLP
Intellectual Property Group
Suite 2800
725 South Figueroa Street
Los Angeles, CA 90017-5406

Date Mailed: 01/02/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Hiroshi Takatori, Sacramento, CA;
James M. Little, Sacramento, CA;
Scott Chiu, Folsom, CA;

RECEIVED
PILLSBURY WINTHROP LLP/LA

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted 12/31/2001

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

Title

Timing recovery with variable bandwidth phase locked loop and non-linear control paths

Preliminary Class

FEB 28 2007

JAN 07 2001
CL# 081674 MT# 0249738
ATTY(S) R.R.N. INTEL
DUE: N/A
DKT BY (1) [Signature] (2)

375

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

FEB 28 2007



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/003,330	10/31/2001	Hiroshi Takatori	PW 024 9738 P12830

RECEIVED

CONFIRMATION NO. 5276

PILLSBURY WINTHROP LLP/LA

FORMALITIES LETTER



OC000000007250500

Pillsbury Winthrop LLP
Intellectual Property Group
Suite 2800
725 South Figueroa Street
Los Angeles, CA 90017-5406

JAN 07 2001

CL# 081674 MT# 0249738
ATTY(S) RAN-INTEL
DUE: 1/10 3/2/02
DKT BY (1) JR (2)

Date Mailed: 01/02/2002

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The signature of the following inventor(s) is missing from the oath or declaration:
Hiroshi Takatori
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- **The balance due by applicant is \$ 130.**

The following item(s) appear to have been **omitted** from the application:

- Figure(s) **5 and 6** described in the specification.

I. Should applicant contend that the above-noted omitted item(s) was in fact deposited in the U.S. Patent and Trademark Office (USPTO) with the nonprovisional application papers, a copy of this Notice and a petition (and \$130.00 petition fee (37 CFR 1.17(h))) with evidence of such deposit **must** be filed within **TWO MONTHS** of the date of this Notice. The petition fee will be refunded if it is determined that the item(s) was received by the USPTO.

II. Should applicant desire to supply the omitted item(s) and accept the date that such omitted item(s) was filed in the USPTO as the filing date of the above-identified application, a copy of this Notice, the omitted item(s) (with a supplemental oath or declaration in compliance with 37 CFR 1.63 and 1.64 referring to such items), and a petition under 37 CFR 1.182 (with the \$130.00 petition fee (37 CFR 1.17(h))) requesting the later filing date **must** be filed within **TWO MONTHS** of the date of this Notice.

III. The failure to file a petition (and petition fee) under the above options (I) or (II) within **TWO MONTHS** of the date of this Notice (37 CFR 1.181(f)) will be treated as a constructive acceptance by the applicant of the application as deposited in the USPTO. **THIS TWO MONTH PERIOD IS NOT EXTENDABLE UNDER 37 CFR 1.136(a) or (b).** In the absence of a timely filed petition in reply to this Notice, the application will maintain a filing

FEB 28 2007

date as of the date of deposit of the application papers in the USPTO, and original application papers (i.e., the original disclosure of the invention) will include only those application papers present in the USPTO on the date of deposit.

In the event that applicant elects not to take action pursuant to options (I) or (II) above (thereby constructively electing option (III)), amendment of the specification to renumber the pages consecutively and cancel incomplete sentences caused by any omitted page(s), and/or amendment of the specification to cancel all references to any omitted drawing(s), relabel the drawing figures to be numbered consecutively (if necessary), and correct the references in the specification to the drawing figures to correspond with any relabelled drawing figures, is required. Any drawing changes should be accompanied by a copy of the drawing figures showing the proposed changes in red ink. Such amendment and/or correction to the drawing figures, if necessary, should be by way of preliminary amendment submitted prior to the first Office action to avoid delays in the prosecution of the application.

*A copy of this notice **MUST** be returned with the reply.*



Customer Service Center
Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY

FEB 28 2007

FOR UTILITY/DESIGN
CIP/PCT NATIONAL/PLANT
ORIGINAL/SUBSTITUTE/SUPPLEMENTAL
DECLARATIONS

RULE 63 (37 C.F.R. 1.63)
DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION

PWLLP
FORM

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the **INVENTION ENTITLED**

TIMING RECOVERY WITH VARIABLE BANDWIDTH PHASE-LOCKED LOOP AND NON-LINEAR CONTROL PATHS

the specification of which (CHECK applicable BOX(ES))

X A. ☒ is attached hereto.

BOX(ES) → B. ☐ was filed on _____ as U.S. Application No. _____ /

→ C. ☐ was filed as PCT International Application No. PCT/ _____ / on _____

and (if applicable to U.S. or PCT application) was amended on _____

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56. Except as noted below, I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International Application which designated at least one other country than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, or PCT International Application, filed by me or my assignee disclosing the subject matter claimed in this application and having a filing date (1) before that of the application on which priority is claimed, or (2) if no priority claimed, before the filing date of this application:

PRIOR FOREIGN APPLICATION(S)

Number	Country	Day/MONTH/Year Filed	Date first Laid-open or Published	Date Patented or Granted	Priority NOT Claimed
--------	---------	----------------------	-----------------------------------	--------------------------	----------------------

If more prior foreign applications, X box at bottom and continue on attached page.

Except as noted below, I hereby claim domestic priority benefit under 35 U.S.C. 119(e) or 120 and/or 365(c) of the indicated United States applications listed below and PCT international applications listed above or below and, if this is a continuation-in-part (CIP) application, insofar as the subject matter disclosed and claimed in this application is in addition to that disclosed in such prior applications, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of each such prior application and the national or PCT international filing date of this application:

PRIOR U.S. PROVISIONAL, NONPROVISIONAL AND/OR PCT APPLICATION(S)

Application No. (series code/serial no.)	Day/MONTH/Year Filed	Status	Priority NOT Claimed
--	----------------------	--------	----------------------

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

And I hereby appoint Pillsbury Winthrop LLP, Intellectual Property Group, 725 So. Figueroa Street, Suite 2800, Los Angeles, CA 90017-5406, telephone number (213) 488-7100 (to whom all communications are to be directed), and the below-named persons (of the same address) individually and collectively my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent, and I hereby authorize them to delete names/numbers below of persons no longer with their firm and to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct the above firm and/or a below attorney in writing to the contrary.

Paul N. Kokulis	16773	Dale S. Lazar	28872	Mark G. Paulson	30793	W. Patrick Bengtsson	32456
Raymond F. Lippitt	17519	Paul E. White, Jr.	32011	Stephen C. Glazier	31361	Jack S. Barufka	37087
G. Lloyd Knight	17698	Glenn J. Perry	28458	Paul F. McQuade	31542	Adam R. Hess	41835
Carl G. Love	18781	Kendrew H. Colton	30368	Ruth N. Morduch	31044	William P. Atkins	38821
Kevin E. Joyce	20508	G. Paul Edgell	24238	Richard H. Zaitten	27248	Paul L. Sharer	36004
George M. Sirilla	18221	Lynn E. Eccleston	35861	Roger R. Wise	31204	James R. Thein	31710
Donald J. Bird	25323	Timothy J. Klima	34852	Jay M. Finkelstein	21082	Peter Lam	44855
Peter W. Gowdey	25872	David A. Jakopin	32995	Michael R. Dzwonczyk	36787	Gene I. Su	45140
Alan K. Aldous	31905	Robert D. Anderson	33826	Joseph R. Bond	36458	Richard C. Calderwood	35468
Jeffrey S. Draeger	41000	Cynthia Thomas Faatz	39973	Sean Fitzgerald	32027	Seth Z. Kalson	40670
David J. Kaplan	41105	Charles A. Mirho	41199	Leo V. Novakoski	37198	Naomi Obinato	39320
Thomas C. Reynolds	32488	Kenneth M. Seddon	43105	Mark Seeley	32299	Steven C. Skabrat	36279
Howard A. Skaist	36008	Steven C. Stewart	33555	Raymond J. Werner	34752	Robert G. Winkle	37474
Charles K. Young	39435	Thomas Raleigh Lane	42781	Calvin E. Wells	43256	Charanjit Brahma	46574
Steven W. Smyrski	38312	Eric S. Chen	43542	Jay C. Chiu	47308	Keyvan Davoudian	47520

(1) INVENTOR'S SIGNATURE:		Date:	
HIROSHI		TAKATORI	
First	Middle Initial	Family Name	
Residence	Sacramento	CA	Japan
City	State/Foreign Country		Country of Citizenship
Post Office Address	932 South Beach Drive		
(include Zip Code)	95831		

(2) INVENTOR'S SIGNATURE:		Date:	
JAMES		10/26/01	
First	Middle Initial	Family Name	
Residence	Sacramento	CA	USA
City	State/Foreign Country		Country of Citizenship
Post Office Address	1912 H Street, Apt. B		
(include Zip Code)	95814		

FOR ADDITIONAL INVENTORS, "X" box ☒ and proceed on the attached page to list each additional inventor.
☐ See additional foreign priorities on attached page (incorporated herein by reference).

Atty. Dkt. No. 81674-249738 FEB 28 2002

DECLARATION AND POWER OF ATTORNEY
(continued)
ADDITIONAL INVENTORS

(3) INVENTOR'S SIGNATURE: *Scott*Date: *10/24/07*

Scott		CHIU	
First		Middle Initial	
Family Name			
Residence	Folsom	CA	USA
City		State/Foreign Country	
Country of Citizenship			
Post Office Address		109 Burrill Drive	
(include Zip Code)		95630	

(4) INVENTOR'S SIGNATURE:

Date:

First		Middle Initial	
Family Name			
Residence			
City		State/Foreign Country	
Country of Citizenship			
Post Office Address			
(include Zip Code)			

(5) INVENTOR'S SIGNATURE:

Date:

First		Middle Initial	
Family Name			
Residence			
City		State/Foreign Country	
Country of Citizenship			
Post Office Address			
(include Zip Code)			

(6) INVENTOR'S SIGNATURE:

Date:

First		Middle Initial	
Family Name			
Residence			
City		State/Foreign Country	
Country of Citizenship			
Post Office Address			
(include Zip Code)			

(7) INVENTOR'S SIGNATURE:

Date:

First		Middle Initial	
Family Name			
Residence			
City		State/Foreign Country	
Country of Citizenship			
Post Office Address			
(include Zip Code)			

(8) INVENTOR'S SIGNATURE:

Date:

First		Middle Initial	
Family Name			
Residence			
City		State/Foreign Country	
Country of Citizenship			
Post Office Address			
(include Zip Code)			

(9) INVENTOR'S SIGNATURE:

Date:

First		Middle Initial	
Family Name			
Residence			
City		State/Foreign Country	
Country of Citizenship			
Post Office Address			
(include Zip Code)			

FEB 28 2007

FOR UTILITY/DESIGN
CIP/PCT NATIONAL/PLANT
ORIGINAL/SUBSTITUTE/SUPPLEMENTAL
DECLARATIONS

DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PW FORM

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the INVENTION ENTITLED

TIMING RECOVERY WITH VARIABLE BANDWIDTH PHASE- LOCKED LOOP AND NON-LINEAR CONTROL PATHS

the specification of which (CHECK applicable BOX(ES))

X A. ☐ is attached hereto.

BOX(ES) → B. ☒ was filed on October 31, 2001 as U.S. Application No. 10/003,330

→ C. ☐ was filed as PCT International Application No. PCT/ / On

and (if applicable to U.S. or PCT application) was amended on

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56. Except as noted below, I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International Application which designated at least one other country than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, or PCT International Application, filed by me or my assignee disclosing the subject matter claimed in this application and having a filing date (1) before that of the application on which priority is claimed, or (2) if no priority claimed, before the filing date of this application:

PRIOR FOREIGN APPLICATION(S)

Number	Country	Day/MONTH/Year Filed	Date first Laid-open or Published	Date Patented or Granted	Priority NOT Claimed
--------	---------	----------------------	-----------------------------------	--------------------------	----------------------

If more prior foreign applications, X box at bottom and continue on attached page.

Except as noted below, I hereby claim domestic priority benefit under 35 U.S.C. 119(e) or 120 and/or 365(c) of the indicated United States applications listed below and PCT international applications listed above or below and, if this is a continuation-in-part (CIP) application, insofar as the subject matter disclosed and claimed in this application is in addition to that disclosed in such prior applications, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of each such prior application and the national or PCT international filing date of this application:

PRIOR U.S. PROVISIONAL, NONPROVISIONAL AND/OR PCT APPLICATION(S)

Application No. (series code/serial no.)	Day/MONTH/Year Filed	Status pending, abandoned, patented	Priority NOT Claimed
--	----------------------	--	----------------------

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

And I hereby appoint Pillsbury Winthrop LLP, Intellectual Property Group, 1600 Tysons Boulevard, McLean, VA 22102, telephone number (703) 905-2000 (to whom all communications are to be directed), and the below-named persons (of the same address) individually and collectively my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent, and I hereby authorize them to delete names/numbers below of persons no longer with their firm and to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/ organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct the above Firm and/or a below attorney in writing to the contrary.

G. Lloyd Knight	17698	David A. Jakopin	32995	Sean Fitzgerald	32027	James R. Thein	31710
George M. Sirilla	18221	Robert D. Anderson	33826	Leo V. Novakoski	37198	Peter Lam	44855
Alan K. Aldous	31905	Cynthia Thomas Faatz	39973	Mark Seeley	32299	Gene I. Su	45140
Jeffrey S. Draeger	41000	Charles A. Mirho	41199	Raymond J. Werner	34752	Seth Z. Kalson	4067
David J. Kaplan	41105	Kenneth M. Seddon	43105	Calvin E. Wells	43256	Naomi Obinato	393
Thomas C. Reynolds	32488	Steven C. Stewart	33555	Evan Finkel	49059	Steven C. Skabrat	362
Howard A. Skaist	36008	Thomas Raleigh Lane	42781	W. Patrick Bengtsson	32456	Robert G. Winkle	372
Charles K. Young	39435	Mark G. Paulson	30793	Jack S. Baruffa	37087	Robin L. Teskin	372
Dale S. Lazar	28872	Stephen C. Glazier	31361	Adam R. Hess	41835	Anthony L. Miele	372
Glenn J. Perry	28458	Paul F. McQuade	31542	William P. Atkins	38821	Robert J. Walters	372
G. Paul Edgell	24238	Richard H. Zaitlen	27248	Paul L. Sharer	36004	Jeffrey D. Karceski	372
Roger R. Wise	31204	Joseph R. Bond	36458	Richard C. Calderwood	35468		

(1) INVENTOR'S SIGNATURE:

Date:

2/4/02

Hiroshi		TAKATORI	
First		Middle Initial	
Residence		Japan	
City		State/Foreign Country	
Post Office Address		932 South Beach Drive	
(include Zip Code)		95831	

FOR ADDITIONAL INVENTORS, "X" box ☐ and proceed on the attached page to list each additional inventor.
☐ See additional foreign priorities on attached page (incorporated herein by reference).

Atty. Ext. No. P12830

(M#)

Rule 56(a) & (b) = 37 C.F.R. 1.56(a) & (b)
PATENT AND TRADEMARK CASES - RULES OF PRACTICE
DUTY OF DISCLOSURE

- (a) ...Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the [Patent and Trademark] Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability... (b) information is material to patentability when it is not cumulative and (1) It also establishes by itself, or in combination with other information, a prima facie case of unpatentability of a claim or (2) refutes, or is inconsistent with, a position the applicant takes in: (i) Opposing an argument of unpatentability relied on by the Office, or (ii) Asserting an argument of patentability

PATENT LAWS 35 U.S.C.

§102. Conditions for patentability; novelty and loss of right to patent

A person shall be entitled to a patent unless--

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for patent or
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of the application for patent in the United States, or
- (c) he has abandoned the invention, or
- (d) the invention was first patented or caused to be patented, or was the subject of an inventor's certificate, by the applicant or his legal representatives or assigns in a foreign country prior to the date of the application for patent in this country on an application for patent or inventor's certificate filed more than twelve months* before the filing of the application in the United States, or
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent, or
- (f) he did not himself invent the subject matter sought to be patented, or
- (g) before the applicant's invention thereof the invention was made in this country by another who had not abandoned, suppressed, or concealed it. In determining priority of invention there shall be considered not only the respective dates of conception and reduction to practice of the invention, but also the reasonable diligence of one who was first to conceive and last to reduce to practice, from a time prior to conception by the other.

§103. Condition for patentability; non-obvious subject matter

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made. . . .
- (c) Subject matter developed by another person, which qualified as prior art only under subsection (a) of section 102 of this title, shall not preclude patentability under this section where the subject matter of the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

* Six months for Design Applications (35 U.S.C. 172).



UNITED STATES PATENT AND TRADEMARK OFFICE

Customer Service Center
Initial Patent Examination Division (703) 308-1202

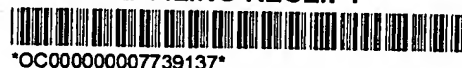
COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/003,330	03/11/2002	2631	1170	PW 024 9738 P12830	7	32	4

↑
INCORRECT. SHOULD BE 10/31/2001

Pillsbury Winthrop LLP
Intellectual Property Group
Suite 2800
725 South Figueroa Street
Los Angeles, CA 90017-5406

CONFIRMATION NO. 5276
UPDATED FILING RECEIPT



OC000000007739137

Date Mailed: 03/28/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Hiroshi Takatori, Sacramento, CA;
James M. Little, Sacramento, CA;
Scott Chiu, Folsom, CA;

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted 12/31/2001

Projected Publication Date: 09/11/2003

Non-Publication Request: No

Early Publication Request: No

Title

Timing recovery with variable bandwidth phase locked loop and non-linear control paths

Preliminary Class

RECEIVED
PILLSBURY WINTHROP LLP/LA

APR 01 2002

CL# 081674
ATTY(S) RRV - INTER
DUE: N/A
DKT BY (1) [Signature] (2)

FEB 28 2007

375

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

FEB 28 2007



PATENT
81674-249738

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:
Hiroshi TAKATORI, et al.

Serial No.: 10/003,330

Filed: October 31, 2001

For: **TIMING RECOVERY WITH VARIABLE
BANDWIDTH PHASE LOCKED LOOP AND NON-
LINEAR CONTROL PATHS**

Confirmation No.: 5276

Date of Notice of Allowance:
August 22, 2006

I hereby certify that this correspondence together with its enclosures and attachments are being facsimile transmitted to: (571)273-2885, MAIL STOP ISSUE FEE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on November 7, 2006.

By:

Roger R. Wise, Reg. No. 31,204

NOTIFICATION OF INCORRECT FILING DATE ON NOTICE OF ALLOWANCE
and
REQUEST FOR CORRECTED FILING RECEIPT

MAIL STOP ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

IN THE NOTICE OF ALLOWANCE

The filing date of the subject application in the Notice of Allowance and in the Updated Filing Receipt is incorrect. The correct filing date should be October 31, 2001.

REMARKS

This application was filed on October 31, 2001 as evidenced by the enclosed copy of the filing transmittals. An official filing receipt was issued on January 2, 2002 which correctly

indicates the filing date, which is October 31, 2001. However, an updated filing receipt was issued on March 28, 2002 which erroneously indicates that the application was filed on March 11, 2002. There was no basis for changing the filing date of this application.

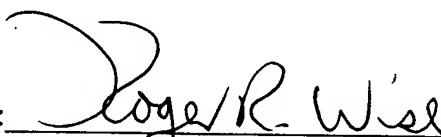
It is therefore requested that the filing date on the Notice of Allowance be corrected to read October 31, 2001 and a corrected filing receipt be issued bearing the same filing date. The enclosed documents are being enclosed for your reference:

- Copy of the Express Mail label and the return postcard
- Copy of Certificate of Express Mail
- Copy of the application transmittal
- Copy of the Filing Receipt issued on January 2, 2002
- Copy of the Updated Filing Receipt issued on March 28, 2002

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

Dated: November 7, 2006

By: 
Roger R. Wise
Registration No. 31,204
Attorney for Applicant(s)

725 South Figueroa Street, Suite 2800
Los Angeles, CA 90017-5406
Telephone: (213) 488-7100
Facsimile: (213) 629-1033